Freshwater Biology

AUTHOR INDEX

Volume 23

ANDERSON, N.J., RIPPEY, B. and STEVENSON, A.C. Change to a diatom assemblage in a eutrophic lake following point source nutrient re-direction: a palaeolimnological approach 205
ASHKENAS, L.R., *see* DeNICOLA, D.M.

BAILEY-WATTS, A.E., KIRIKA, A., MAY, L. and JONES, D.H. Changes in phytoplankton over various time scales in a shallow, eutrophic loch: the Loch Leven experience with special reference to the influence of flushing rate 85
BALSEIRO, E.G., *see* MATVEEV, V.F.
BARKER, D.M. and HEBERT, P.D.N. The role of density in sex determination in *Daphnia magna* (Crustacea, Cladocera) 373
BARMUTA, L.A., COOPER, S.D., HAMILTON, S.K., KRATZ, K.W. and MELACK, J.M. Responses of zooplankton and zoobenthos to experimental acidification in a high-elevation lake (Sierra Nevada, California, U.S.A.) 571
BENSON, B.J., *see* MAGNUSON, J.J.
BENTON, M.J. and PRITCHARD, G. Mayfly locomotory responses to endoparasitic infection and predator presence: the effects on predator encounter rate 363
BOWSER, C.J., *see* MAGNUSON, J.J.

CAPPENBERG, T.E., *see* SINKE, A.J.C.
CHAMBERS, P.A. and PREPAS, E.E. Competition and coexistence in submerged aquatic plant communities: the effects of species interactions versus abiotic factors 541
COESEL, P.F.M. and WARDENAAR, K. Growth responses of planktonic desmid species in a temperature–light gradient 551
COLLIER, K.J. and WINTERBOURN, M.J. Population dynamics and feeding of mayfly larvae in some acid and alkaline New Zealand streams 181
COOPER, J.A., *see* NECKLES, H.A.
COOPER, S.D., *see* BARMUTA, L.A.
CORNELESE, A.A., *see* SINKE, A.J.C.
CRISP, D.T. Simplified methods of estimating daily mean stream water temperature 457
CRISP, D.T. Water temperature in a stream gravel bed and implications for salmonid incubation 601
CUFFNEY, T.F., WALLACE, J.B. and LUGTHART, G.J. Experimental evidence quantifying the role of benthic invertebrates in organic matter dynamics of headwater streams 281
CUSHING, D.H. Recent studies on long-term changes in the sea 71

DeNICOLA, D.M., McINTIRE, C.D., LAMBERTI, G.A., GREGORY, S.V. and ASHKENAS, L.R. Temporal patterns of grazer–periphyton interactions in laboratory streams 475
DREWES, H.G., *see* MODDE, T.

ELLIOTT, J.M. The need for long-term investigations in ecology and the contribution of the Freshwater Biological Association 1

GASSE, F., *see* GUZKOWSKA, M.A.J.
GEORGE, D.G., HEWITT, D.P., LUND, J.W.G. and SMYLY, W.J.P. The relative effects of enrichment and climate change on the long-term dynamics of *Daphnia* in Esthwaite Water, Cumbria 55
GHERARDI, F., *see* MICHELI, F.
GREGORY, S.V., *see* DeNICOLA, D.M.
GUZKOWSKA, M.A.J. and GASSE, F. Diatoms as indicators of water quality in some English urban lakes 233
GUZKOWSKA, M.A.J. and GASSE, F. The seasonal response of diatom communities to variable quality in some English urban lakes 251
GWYNFRYN JONES, J. Long-term research and the future: Résumé 161

HAMILTON, S.K., *see* BARMUTA, L.A.
HAYASHI, F. Convergence of insular dwarfism in damselflies (*Euphaea*) and dobsonflies (*Protohermes*) 219
HEBERT, P.D.N., *see* BARKER, D.M.
HEWITT, D.P., *see* GEORGE, D.G.
HILDREW, A.G., *see* RUNDLE, S.D.
HUMPESCH, U.H., *see* PÖCKL, M.
HURLEY, M.A., *see* MILLS, C.A.

JEFFRIES, M. Evidence of induced plant defences in a pondweed 265
JEFFRIES, M. Interspecific differences in movement and hunting success in damselfly larvae (Zygoptera: Insecta): responses to prey availability and predation threat 191
JONES, D.H., *see* BAILEY-WATTS, A.E.
JONES, R.I. Phosphorus transformations in the epilimnion of humic lakes: biological uptake of phosphate 323

KEIZER, P., *see* SINKE, A.J.C.
KILHAM, P. and KILHAM, S.S. Endless summer: internal loading processes dominate nutrient cycling in tropical lakes 379
KILHAM, S.S., *see* KILHAM, P.
KIRIKA, A., *see* BAILEY-WATTS, A.E.
KRATZ, K.W., *see* BARMUTA, L.A.
KRATZ, T.K., *see* MAGNUSON, J.J.

LADLE, M. Long-term investigations of trophic relationships in southern chalk streams 113
LAMBERTI, G.A., *see* DeNICOLA, D.M.
LINKINS, A.E., *see* SINSABAUGH, R.L.
LUGTHART, G.J., *see* CUFFNEY, T.F.
LUND, J.W.G., *see* GEORGE, D.G.

MAGNUSON, J.J., BENSON, B.J. and KRATZ, T.K. Temporal coherence in the limnology of a suite of lakes in Wisconsin, U.S.A. 145
MAGNUSON, J.J. and BOWSER, C.J. A network for long-term ecological research in the United States 137
MATVEEV, V.F. and BALSEIRO, E.G. Contrasting responses of two cladocerans to changes in the nutritional value of nannoplankton 197
MAY, L., *see* BAILEY-WATTS, A.E.
McINTIRE, C.D., *see* DeNICOLA, D.M.
McQUEEN, D.J. Manipulating lake community structure: where do we go from here? 613
MELACK, J.M., *see* BARMUTA, L.A.
MICHELI, F., GHERARDI, F. and VANNINI, M. Growth and reproduction in the freshwater crab, *Potamon fluviatile* (Decapoda, Brachyura) 491
MILLS, C.A. and HURLEY, M.A. Long-term studies on the Windermere populations of perch (*Perca fluviatilis*), pike (*Esox lucius*) and Arctic charr (*Salvelinus alpinus*) 119
MODDE, T. and DREWES, H.G. Comparison of biotic index values for invertebrate collections from natural and artificial substrates 171
MURKIN, H.R., *see* NECKLES, H.A.

NECKLES, H.A., MURKIN, H.R. and COOPER, J.A. Influences of seasonal flooding on macroinvertebrate abundance in wetland habitats 311

OLSSON, H. Phosphatase activity in relation to phytoplankton composition and pH in Swedish lakes 353

PAIS MADEIRA, A.M., *see* ZOHARY, T.
PÖCKL, M. and HUMPESCH, U.H. Intra- and inter-specific variations in egg survival and brood development time for Austrian populations of *Gammarus fossarum* and *G. roeseli* (Crustacea: Amphipoda) 441
PÖCKL, M. and TIMISCHL, W. Comparative study of mathematical models for the relationship between water temperature and brood development time of *Gammarus fossarum* and *G. roeseli* (Crustacea: Amphipoda) 433
PREPAS, E.E., *see* CHAMBERS, P.A.
PRITCHARD, G., *see* BENTON, M.J.; *see also* PROCTOR, H.C.
PROCTOR, H.C. and PRITCHARD, G. Prey detection by the water mite *Unionicola crassipes* (Acari: Unionicolidae) 271

REYNOLDS, C.S. Temporal scales of variability in pelagic environments and the response of phytoplankton 25
RIPPEY, B., *see* ANDERSON, N.J.
ROTHHAUPT, K.O. Population growth rates of two closely related rotifer species: effects of food quantity, particle size, and nutritional quality 561
RUNDLE, S.D. and HILDREW, A.G. The distribution of micro-arthropods in some southern English streams: the influence of physicochemistry 411

SARVALA, J. Complex and flexible life history of a freshwater benthic harpacticoid species 523
SCHOENBERG, S.A. Short-term productivity responses of algae and bacteria to zooplankton grazing in two freshwater lakes 395
SCOFIELD, A.M., *see* WILKIN, P.J.
SINKE, A.J.C., CORNELESE, A.A., KEIZER, P., VAN TONGEREN, O.F.R. and CAPPENBERG, T.E. Mineralization, pore water chemistry and phosphorus release from peaty sediments in the eutrophic Loosdrecht lakes, The Netherlands 587

SINSABAUGH, R.L. and LINKINS, A.E. Enzymic and chemical analysis of particulate organic matter from a boreal river 301
SMYLY, W.J.P., *see* GEORGE, D.G.
STEVENSON, A.C., *see* ANDERSON, N.J.

THOMAS, J.D., *see* UNDERWOOD, G.J.C.
TIMISCHL, W., *see* PÖCKL, M.
TIPPING, E. A model of surface water acidification in Cumbria and its uses in long-term research 7

UNDERWOOD, G.J.C. and THOMAS, J.D. Grazing interactions between pulmonate snails and epiphytic algae and bacteria 505

VANNINI, M., *see* MICHELI, F.
VAN TONGEREN, O.F.R., *see* SINKE, A.J.C.

WALLACE, J.B., *see* CUFFNEY, T.F.
WARDENAAR, K., *see* COESEL, P.F.M.
WILKIN, P.J. and SCOFIELD, A.M. The use of a serological technique to examine host selection in a natural population of the medicinal leech, *Hirudo medicinalis* 165
WINTERBOURN, M.J. Interactions among nutrients, algae and invertebrates in a New Zealand mountain stream 463
WINTERBOURN, M.J., *see also* COLLIER, K.J.

ZOHARY, T. and PAIS MADEIRA, A.M. Structural, physical and chemical characteristics of *Microcystis aeruginosa* hyperscums from a hypertrophic lake 339